

43. Match:

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| 1. AC | A. Magnetic lines of force. |
| 2. Generator | B. Total opposition to current in an AC circuit. |
| 3. Sine Wave | C. Current leads Voltage by 90° . |
| 4. Period | D. Amount of time for a capacitor to charge 63%. |
| 5. Frequency | E. Current lags Voltage by 90° . |
| 6. Pulse Width | F. Two per period, one positive, the other negative. |
| 7. Flux Lines | G. Transformer winding with the load connected. |
| 8. Oscilloscope | H. Passes high freq. With max. voltage & attenuates the low freq. |
| 9. Function Generator | I. Process of transferring energy from primary to secondary due to expansion & contraction of magnetic field cutting across the secondary. |
| 10. Inductor | J. Opposes change in current, Stores energy in electromagnetic field. |
| 11. Inductor
Phase relation | K. Used to analyze the wave shape & measure the amplitude, period, and pulse width of an AC signal. |
| 12. Impedance | L. Passes low freq. With max. voltage & attenuates the high freq. |
| 13. Reactive
Component | M. Changes the voltage and current of the AC on the primary to a different value on the secondary. |
| 14. Capacitor | N. Converts mechanical energy into electrical energy. |
| 15. Capacitor
Phase Relation | O. Used to produce 3 types of AC signals at a wide range of frequencies at different amplitudes. |
| 16. Lowpass Filter | P. Voltage generated in relation with the angle of the rotor in the magnetic field. |
| 17. Highpass filter | Q. Opposes change in voltage, stores energy in electrostatic field. |
| 18. Time Constant (TC) | R. Frequency sensitive device. |
| 19. Transformer | S. Transformer winding with the input signal connected. |
| 20. Mutual Inductance | T. Current that changes in amplitude & periodically reverses direction. |
| 21. Primary Winding | U. Time required for the rotor to make 1 complete revolution (360°). |
| 22. Secondary Winding | V. Number of complete revolutions (360°) of the generator in 1 second. |
| 23. Alternation | W. Time it takes to do 1 alternation, $\frac{1}{2}$ of period |